

SPARQL query result using the SPARQL plugin embedded with Protégé 4.3, build 304:

Screenshot of the Protégé 4.3 interface showing the SPARQL query results. The query is as follows:

```

PREFIX rdt <http://www.w3.org/1999/02/22-rdf-syntax-ns#>
PREFIX owl <http://www.w3.org/2002/07/owl#>
PREFIX xsd <http://www.w3.org/2001/XMLSchema#>
PREFIX rdf <http://www.w3.org/2000/10/rdf-schema#>
PREFIX obo <http://purl.obolibrary.org/obo>

SELECT ?subject ?p ?OddsRatio ?Pvalue
WHERE { ?s oboIAO_0000136 ?subject . # obo:is about
?s oboIAO_0000136 ?pvalue . # obo:hasValue
?o obo:OGSF_000031 ?OddsRatio . # obo:hasOddsRatio
?subject rdfs:subClassOf ?s_ .
?s_rdf:type owl:Restriction .
?s_owl:onProperty obo:BFO_0000127 . #obo:material basis at some time
?s_owl:someValuesFrom obo:OGSF_0000010 . #obo:genetic susceptibility to vaccine adverse event
?p rdfs:subClassOf obo:OAE_0000004 . #obo:vaccine adverse event
}
ORDER BY ?subject

```

The results table shows the following data:

subject	p	s	OddsRatio	Value
'T allele of rs1801133 SNP'	'systemic adverse event after smallpox vaccination'	'positive conclusion 1 of genetic susceptibility_trial1'	"2.3"^^<http://www.w3.org/2001/XMLSchema#float>"0.03"^^<http://www.w3.org/2001/XMLSchema#float>	
'G allele of rs9282763 SNP'	'systemic adverse event after smallpox vaccination'	'positive conclusion 2 of genetic susceptibility_trial2'	"3.0"^^<http://www.w3.org/2001/XMLSchema#float>"0.03"^^<http://www.w3.org/2001/XMLSchema#float>	
'G allele of rs9282763 SNP'	'systemic adverse event after smallpox vaccination'	'positive conclusion 2 of genetic susceptibility_trial1'	"3.2"^^<http://www.w3.org/2001/XMLSchema#float>"0.03"^^<http://www.w3.org/2001/XMLSchema#float>	
'A allele of rs839 SNP'	'systemic adverse event after smallpox vaccination'	'positive conclusion 3 of genetic susceptibility_trial1'	"3.2"^^<http://www.w3.org/2001/XMLSchema#float>"0.03"^^<http://www.w3.org/2001/XMLSchema#float>	
'A allele of rs839 SNP'	'systemic adverse event after smallpox vaccination'	'positive conclusion 3 of genetic susceptibility_trial2'	"3.0"^^<http://www.w3.org/2001/XMLSchema#float>"0.03"^^<http://www.w3.org/2001/XMLSchema#float>	
'haplotype 1 in IRF1 gene'	'systemic adverse event after smallpox vaccination'	'positive conclusion 4 of genetic susceptibility_trial1'	"3.2"^^<http://www.w3.org/2001/XMLSchema#float>"0.03"^^<http://www.w3.org/2001/XMLSchema#float>	
'haplotype 1 in IRF1 gene'	'systemic adverse event after smallpox vaccination'	'positive conclusion 4 of genetic susceptibility_trial2'	"3.0"^^<http://www.w3.org/2001/XMLSchema#float>"0.03"^^<http://www.w3.org/2001/XMLSchema#float>	
'haplotype 2 in IL4 gene'	'systemic adverse event after smallpox vaccination'	'negative conclusion 5 of genetic susceptibility_trial2'	"3.8"^^<http://www.w3.org/2001/XMLSchema#float>"0.06"^^<http://www.w3.org/2001/XMLSchema#float>	
'haplotype 2 in IL4 gene'	'systemic adverse event after smallpox vaccination'	'positive conclusion 5 of genetic susceptibility_trial1'	"2.4"^^<http://www.w3.org/2001/XMLSchema#float>"0.05"^^<http://www.w3.org/2001/XMLSchema#float>	

The SPARQL query code and returned result when using Ontobee SPARQL query endpoint
<http://www.ontobee.org/sparql/index.php>

SPARQL Query code:

```

# query using ontobee SPARQL query endpoint:
PREFIX obo: <http://purl.obolibrary.org/obo/>
SELECT ?subject_label ?p_label ?s_label ?OddsRatio ?Pvalue ?CI
from <http://purl.obolibrary.org/obo/merged/OGSF>
WHERE { ?s obo:IAO_0000136 ?subject .
?subject obo:IAO_0000136 ?p .
?subject rdfs:type obo:OGSF_0000031 .
?subject obo:OGSF_0001032 ?Pvalue .
?subject obo:OGSF_0001031 ?OddsRatio .
?subject obo:OGSF_0000040 ?CI .
?subject rdfs:subClassOf ?s_ .
?s_rdf:type owl:Restriction .
?s_owl:onProperty obo:BFO_0000127 .
?s_owl:someValuesFrom obo:OGSF_0000010 .
?p rdfs:subClassOf obo:OAE_0000004 .
?subject rdfs:label ?subject_label .
?subject rdfs:label ?s_label .
?p rdfs:label ?p_label .

```

Ontobee returned result :

[Result](#) | [Raw Request/Permalinks](#) | [Raw Response](#)

subject_label	p_label	s_label	OddsRatio	Pvalue	CI
G allele of rs9282763 SNP	systemic adverse event after smallpox vaccination	positive conclusion 2 of genetic susceptibility_trial1	3.200000047683716	0.02999999932944775	[>=1.1, <=9.8]
G allele of rs9282763	systemic adverse event after smallpox vaccination	positive conclusion 2 of genetic susceptibility_trial2	3	0.02999999932944775	[>=1.1, <=8.3]
A allele of rs839 SNP	systemic adverse event after smallpox vaccination	positive conclusion 3 of genetic susceptibility_trial1	3.200000047683716	0.02999999932944775	[>=1.1, <=9.8]
haplotype 1 in IRF1 gene	systemic adverse event after smallpox vaccination	positive conclusion 4 of genetic susceptibility_trial2	3	0.02999999932944775	[>=1.0, <=9.0]
haplotype 2 in IL4 gene	systemic adverse event after smallpox vaccination	positive conclusion 5 of genetic susceptibility_trial1	2.400000095367432	0.05000000074505806	[>=1.0, <=5.7]
T allele of rs1801133 SNP	systemic adverse event after smallpox vaccination	positive conclusion 1 of genetic susceptibility_trial1	2.299999952316284	0.02999999932944775	[>=1.4, <=11.4]
A allele of rs839 SNP	systemic adverse event after smallpox vaccination	positive conclusion 3 of genetic susceptibility_trial2	3	0.02999999932944775	[>=1.1, <=8.3]
haplotype 1 in IRF1	systemic adverse event after smallpox vaccination	positive conclusion 4 of genetic susceptibility_trial1	3.200000047683716	0.02999999932944775	[>=1.0f, <=10.2f]